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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Invention: **Hotspot Spray Cooling** )  
Serial No.: **10/786,452** )  
Filed: **02/24/2004** )  
Inventor: **Tilton et al.** )  
Examiner: **Unknown** )  
Group Art Unit: **2835** )  
Agent / Attorney: **Paul A. Knight** )  
Docket: **ISR-172** )

**INFORMATION DISCLOSURE STATEMENT**

Honorable Commissioner of Patents and Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sirs:

With regard to the above identified application, pursuant to 37 C.F.R. §§ 1.56, the documents listed on the enclosed Form PTO/SB/08A are brought to the attention of the Examiner. No representation is made that these documents are analogous art or material to the patentability of the invention. In accordance with 37 C.F.R. § 1.104, no representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103. Moreover, no representation is made that the attached documents have been thoroughly reviewed or that any relevance of any portion of a document is intended.

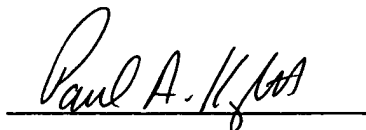
The disclosure statement should not be construed as a representation that a search has been made or that other material information as defined by 37 C.F.R. § 1.56(a) exists. It is believed that this disclosure complies with the requirements of 37 C.F.R §§ 1.56, 1.97 and 1.98, and the Manual of Patent Examination Procedures § 609. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

Applicant reserves the right to present to the USPTO the relevant facts and law to support the listed documents are not "prior art" (e.g. pursuant to 37 C.F.R § 1.131 or otherwise), that the listed documents are not "material" to the patentability of the present invention and that the present invention is patentable over the listed documents.

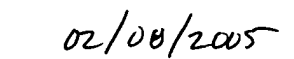
A copy of each document is enclosed. Some of the documents may have markings; no significance is meant to be attached to the markings.

Consideration of the documents is respectfully requested. Pursuant to the provisions of MPEP 609, it is requested that the Examiner return a copy of the attached Form PTO/SB/08A, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

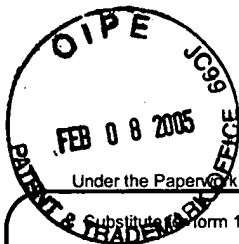
Respectfully submitted,

A handwritten signature in cursive script, reading "Paul A. Knight", written over a horizontal line.

Paul A. Knight (Reg. No. 53,144)

A handwritten date "02/08/2005" written over a horizontal line.

Date



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/786,452
Filing Date	02-24-2004
First Named Inventor	Tilton
Art Unit	2835
Examiner Name	
Attorney Docket Number	ISR-172

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A	US- 6,667,548 B2	12-23-2003	O'Connor et al.	
	B	US- 6,650,542 B1	11-18-2003	Chrysler et al.	
	C	US- 6,604,370 B2	08-12-2003	Bash et al.	
	D	US- 4,352,392	10-05-1982	Eastman	
	E	US- 6,580,610 B2	06-17-2003	Morris et al.	
	F	US- 6,205,799 B1	03-27-2001	Patel et al.	
	G	US- 5,718,117	02-17-1998	McDunn et al.	
	H	US- 6,612,120 B2	09-02-2003	Patel et al.	
	I	US- 5,675,472	10-07-1997	McDunn et al.	
	J	US- 5,924,482	06-20-1999	Edwards et al.	
	K	US- 5,768,103	06-16-1998	Kobrinetz et al.	
	L	US- 6,571,569 B1	06-03-2003	Rini et al.	
	M	US- 5,247,426	09-21-1993	Hamburgen et al.	
	N	US- 6,550,263 B2	04-22-2003	Patel et al.	
	O	US- 6,349,554 B2	02-26-2002	Patel et al.	
	P	US- 5,959,351	09-28-1999	Sasaki et al.	
	Q	US- 6,108,201	08-22-2000	Tilton et al.	
	R	US- 5,183,104	02-02-1993	Novotny	
	S	US- 5,220,804	06-22-1093	Tilton et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet 2

of 3

Attorney Docket Number	ISR-172
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**Complete if Known**

Application Number	10/786,452
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Filing Date	02-24-2004
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First Named Inventor	Tilton
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Art Unit	2835
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Examiner Name

Attorney Docket Number	ISR-172
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## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner  
Signature

Date  
Considered

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/786,452
		Filing Date	02-24-2004
		First Named Inventor	Tilton
		Art Unit	2835
		Examiner Name	
Sheet 3	of 3	Attorney Docket Number	ISR-172

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A1	BASH et al, Inkjet Assisted Spray Cooling of Electronics, ASME IPACK03 - International Electronics Packaging Technical Conference and Exhibition, July 6-11, 2003, Maui, Hawaii	
	A2	Tilton, Spray Cooling, Doctorial Dissertation - University of Kentucky, Lexington, Kentucky, 1989	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

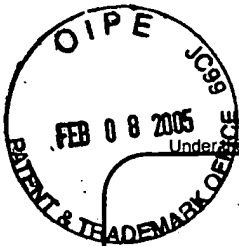
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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2-10-05

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PTO/SB/21 (08-03)

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

7

Application Number

10/786,452

Filing Date

02-24-2004

First Named Inventor

Tilton

Art Unit

2835

Examiner Name

Attorney Docket Number

ISR-172

## ENCLOSURES (Check all that apply)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br><input type="checkbox"/> Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance communication to Technology Center (TC)<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
|--|--|--|

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Paul A. Knight
Signature	<i>Paul A. Knight</i>
Date	02/08/2005

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to \_\_\_\_\_, 50, Alexandria, VA 22313-1450 on the date shown below.

EXPRESS MAIL

ED270619547US

Typed or printed name	Paul A. Knight
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Signature

*Paul A. Knight*

Date

02/08/2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Docket No.: ISR-172

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IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

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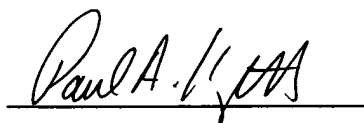
Invention: **Hotspot Spray Cooling** )  
Serial No.: **10/10/786,452** )  
Filed: **02/24/2004** )  
Inventor: **Tilton et al.** )  
 )  
Group Art Unit: **2835** )  
Agent / Attorney: **Paul A. Knight** )

To: **Commissioner of Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

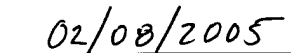
Sir:

Please find included Form PTO/SB/08A listing documents for the Examiner to consider during examination of the above-stated patent application.

Respectfully submitted,



Paul A. Knight  
Registered Patent Agent  
2218 North Molter Road  
Liberty Lake, WA 99019



Date

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E-mail: [pknight@spraycool.com](mailto:pknight@spraycool.com)